



SA-7739 Light Strip Pro Antenna Test Report

2023-4-20

test date / personnel: 20230420 /Chris

碧擎科技有限公司
Bi Qing Technology Co., Ltd.

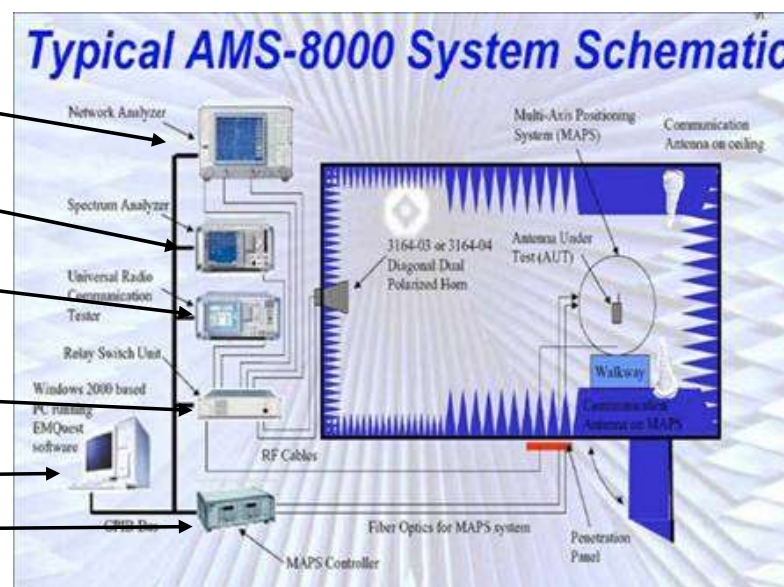
Antenna Test System

- ETS-Lindgren AMS-8000 Series System Components
- Chambers
- EMQuest EMQ-100 Software
- Positioning Systems
- Chamber Room Size: L*W*H=7.3*3.7*3.7 M
- calibration date :2023/02 /15



NA 8720ES

- **Network Analyzer**
Agilent 8720ES
- **Spectrum Analyzer**
R&S FSP13
- **Universal Radio Communication Tester**
R&S CMU200
- **Switch**
Agilent 3499B
- **PC and Software**
- **Rotate Controller**
ETS-Lindgren 2090



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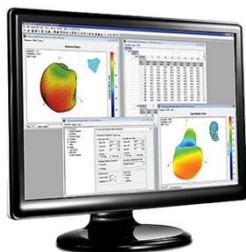
Antenna Under Test

Test Procedure

Use the EMQuest EMQ-100 to test antenna



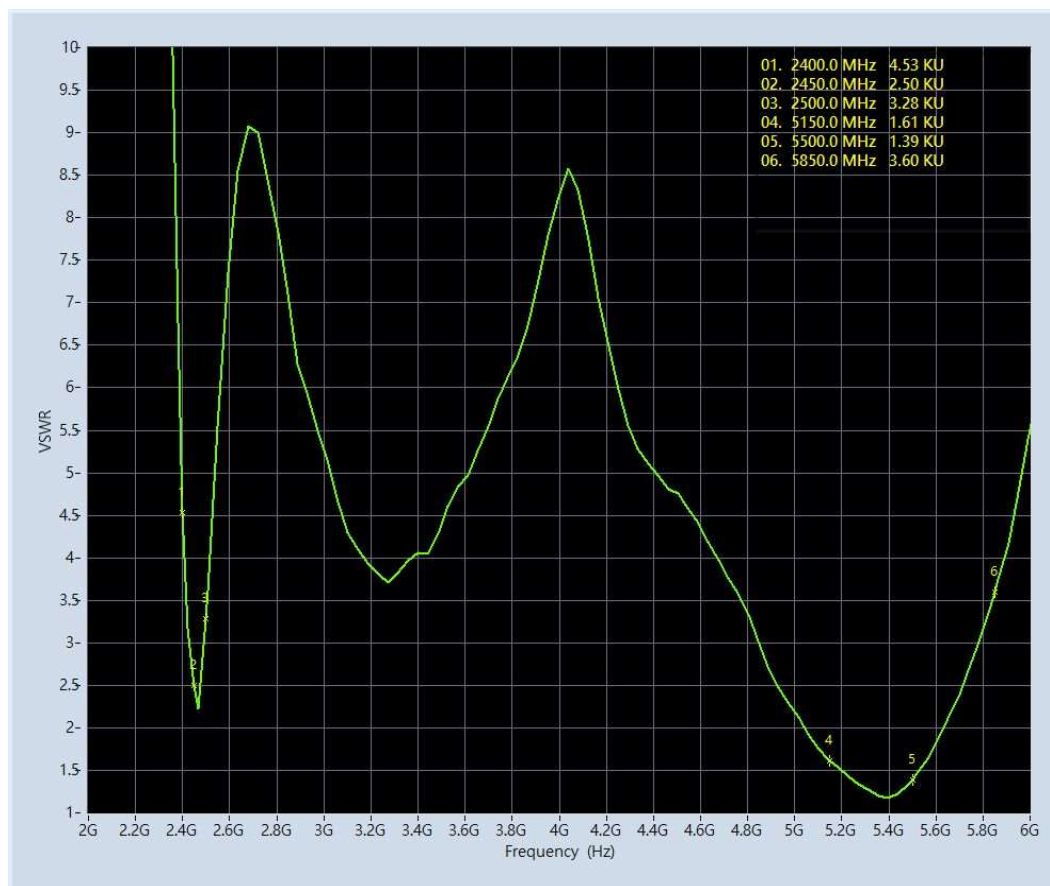
EMQuest EMQ-100



Antenna 製造商-碧擎科技有限公司

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ANT S-Parameter



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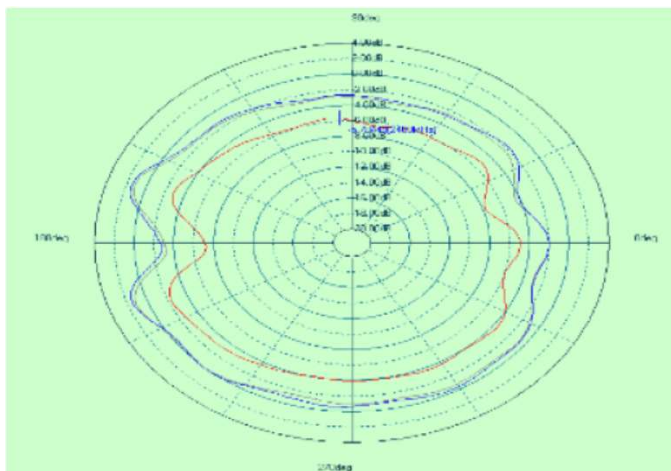


Gain Table

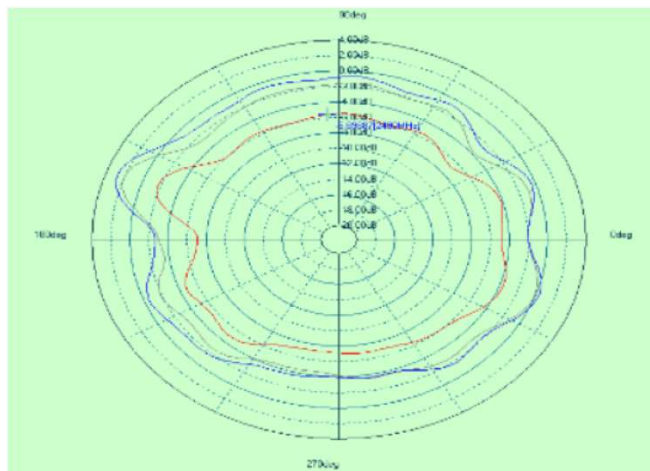
Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency(%)	31.0	34.7	36.6	68.7	59.2	47.8
Peak Gain(dBi)	-0.09	-0.01	1.05	1.55	1.85	0.16

2D Radiation Pattern_2.4G

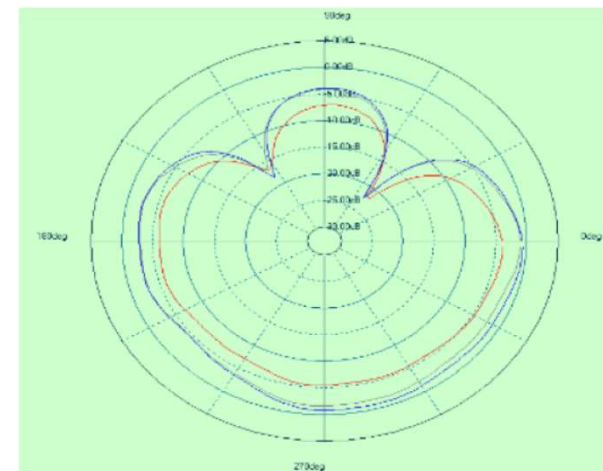
X-Z Plane



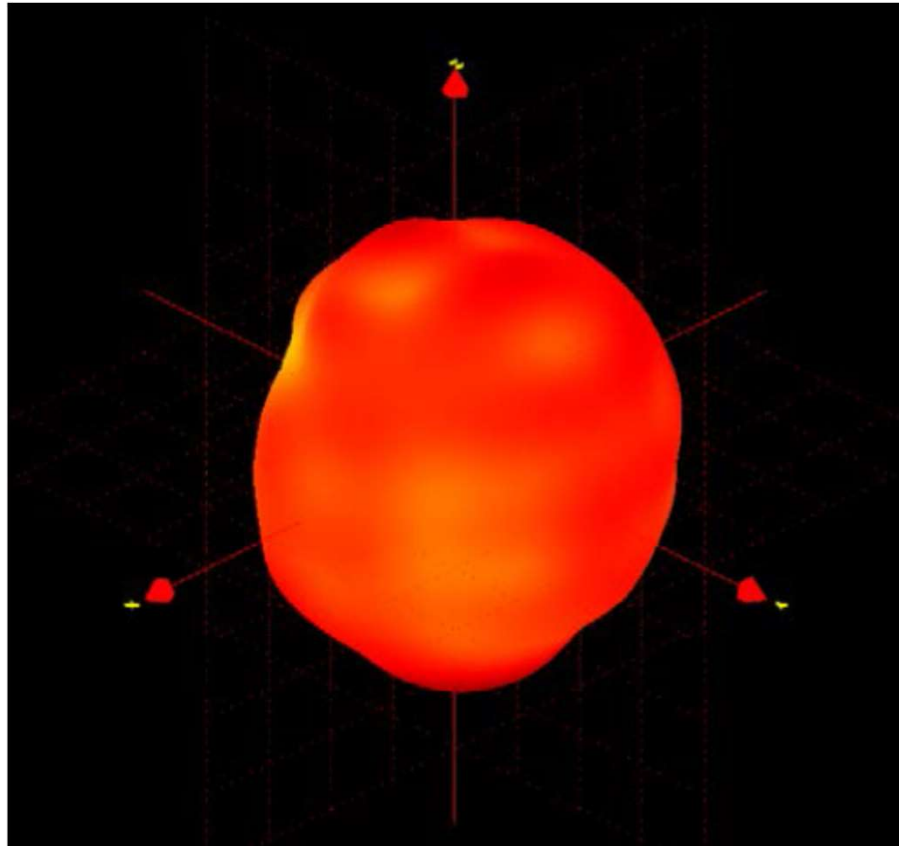
Y-Z Plane



X-Y Plane

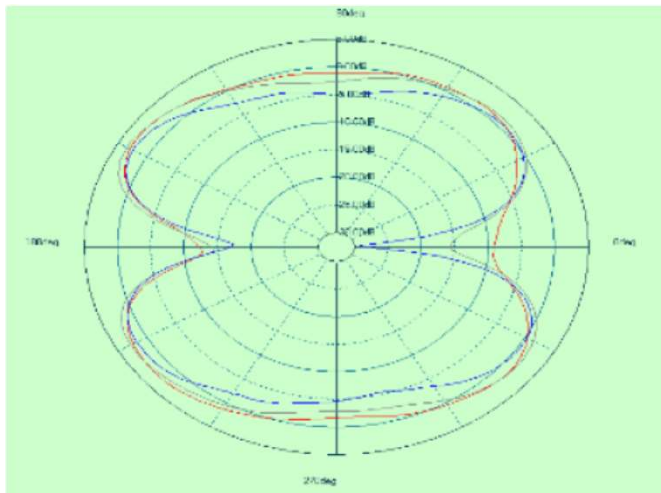


3D Radiation Pattern_2.4G

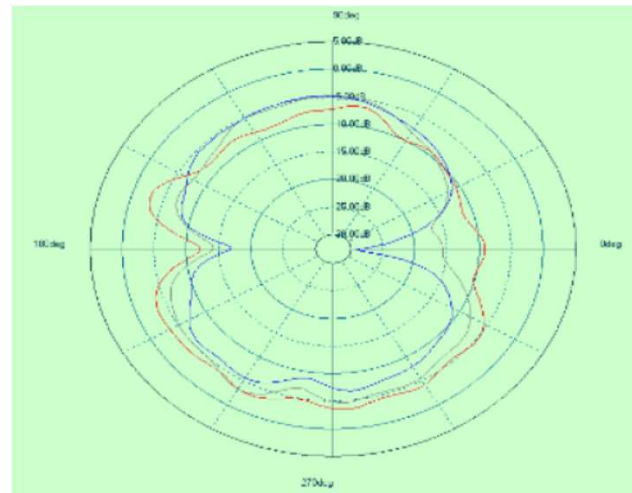


2D Radiation Pattern_5G

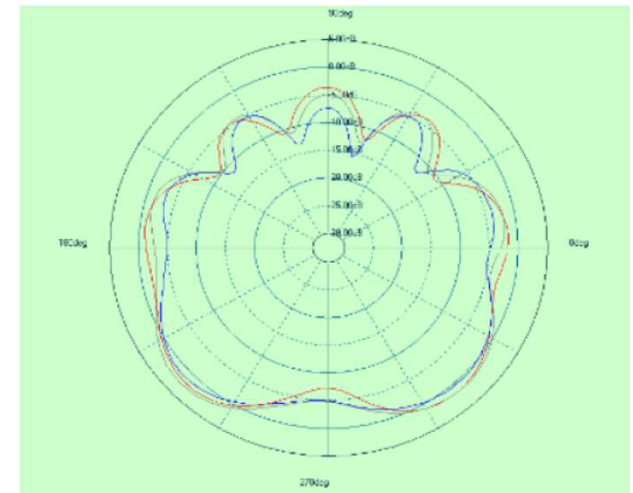
X-Z Plane



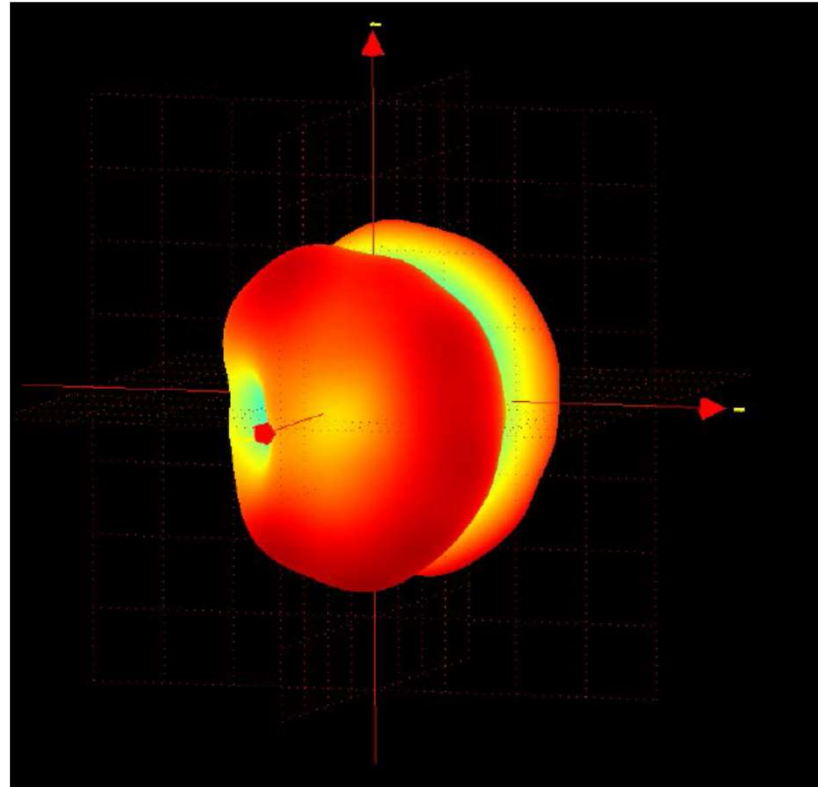
Y-Z Plane



X-Y Plane

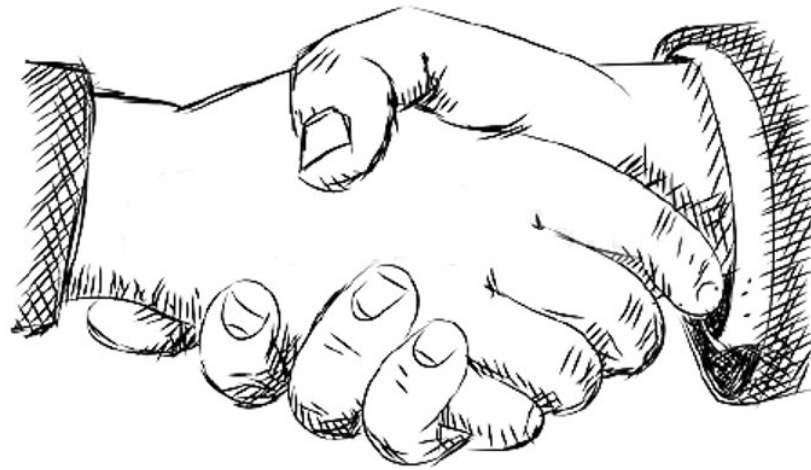


3D Radiation Pattern_5G





Thank You!



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